Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 42105 JOB: 23-7719-R01 JOB NAME: LOT 17 PROVIDENCE CREEK Wind Code: 37 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2015 as well as IRC 2018. 29 Truss Design(s)

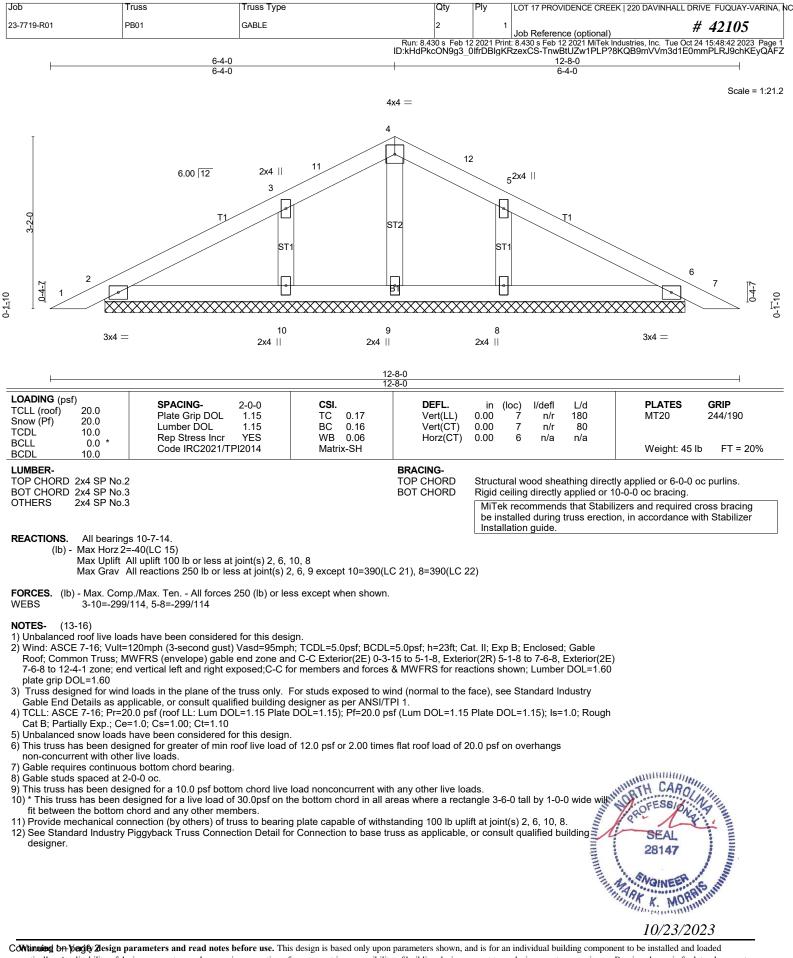
Trusses:

PB01, PB02, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, SP01, SP02, SPJ01, SPJ02, SPJ03, VS01, VS02, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08



Warning !--- Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for*



Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVIN	IHALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	PB01	GABLE	2	1	Job Reference (optional)	# 42105
		Ru	n: 8.430 s Feb 1	2 2021 Prin	t: 8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Oct 24 15:48:42 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-TnwBtUZw1PLP?8KQB9mVVm3d1E0mmPLRJ9chKEyQAFZ

13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

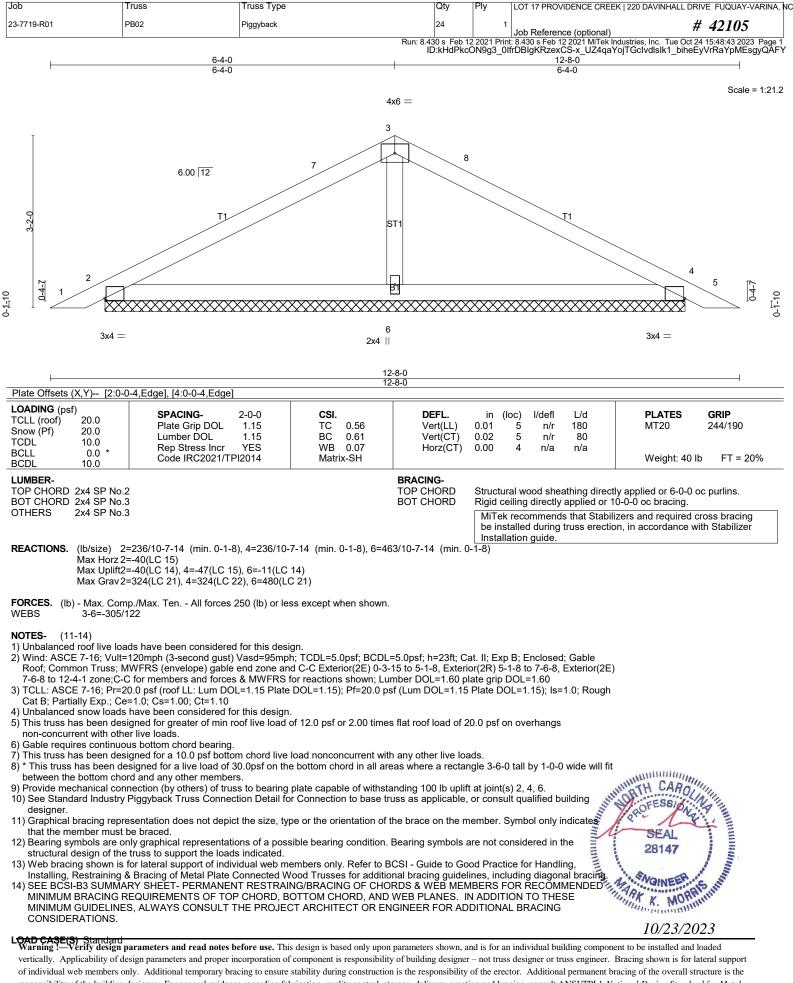
15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

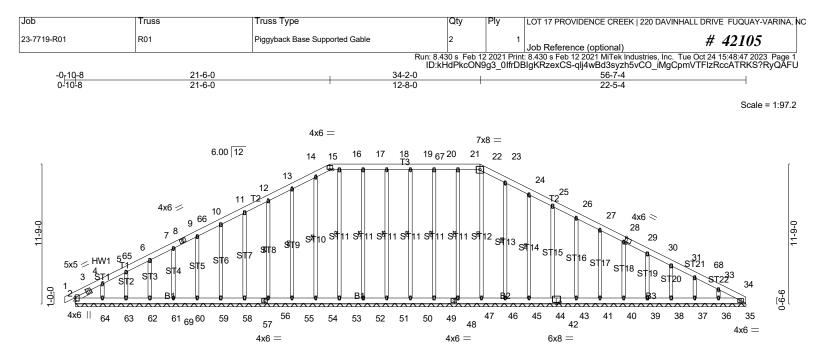
LOAD CASE(S) Standard



10/23/2023



of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



			56-7-4				
Plate Offsets (X,Y) [29:0-2	-1,Edge], [43:0-4-0,0-1-4], [48:0-2-1		56-7-4 2-0]				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.06 BC 0.03 WB 0.25 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.00 1 n/r 0.00 1 n/r 0.01 34 n/a	L/d 180 80 n/a	PLATES MT20 Weight: 559 II	GRIP 244/190 p FT = 20%
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 OTHERS 2x4 SP No.3 SLIDER Left 2x4 SP N	lo.3 -° 1-6-4		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood she Rigid ceiling directly 1 Row at midpt	-applied or 10 19-50, 18		14-54, 13-55,
43, Max Grav Al 51= 59= 41= FORCES. (Ib) - Max. Comp. TOP CHORD 13-14=-124/	150(LC 15) I uplift 100 lb or less at joint(s) 2, 50 41, 40, 39, 38, 37, 36, 35 I reactions 250 lb or less at joint(s) 2 =293(LC 44), 52=295(LC 44), 53=28 =294(LC 45), 60=287(LC 45), 49=29 =293(LC 45), 40=293(LC 45), 39=27 ./Max. Ten All forces 250 (lb) or le (261, 14-15=-129/268, 15-16=-124/2 (265, 19-67=-124/265, 20-67=-124/2	, 61, 62, 63, 64, 46, 38 4(LC 52), 54=284(LC 5 5(LC 44), 47=287(LC 4 5(LC 45) ss except when shown 65, 16-17=-124/265, 1	3, 37, 36, 35, 34 ex 33), 55=296(LC 45 14), 45=302(LC 49 7-18=-124/265,	(cept 50=292(LC 44), 5), 56=293(LC 45), 58=			
 2) Wind: ASCE 7-16; Vult=12 Roof; Common Truss; MW Corner(3R) 15-10-1 to 27- Corner(3E) 50-11-5 to 56- Lumber DOL=1.60 plate g 3) Truss designed for wind I Gable End Details as appi 4) TCLL: ASCE 7-16; Pr=20. Cat B; Partially Exp.; Ce=: 5) Unbalanced snow loads h 6) This truss has been desig non-concurrent with other 7) Provide adequate drainag 8) All plates are 2x4 MT20 u 9) Gable studs spaced at 2: 11) This truss has been desi 12) * This truss has been desi 12) * This truss has been desi 12) * This truss has been desi 13) Provide mechanical conr 58, 59, 60, 61, 62, 63, 64 	oads in the plane of the truss only. licable, or consult qualified building (.0 psf (roof LL: Lum DOL=1.15 Plate 1.0; Cs=1.00; Ct=1.10 ave been considered for this design ned for greater of min roof live load live loads. le to prevent water ponding. nless otherwise indicated. s bottom chord bearing.	 TCDL=5.0psf; BCDL d C-C Corner(3E) -0-11 Q. Corner(3R) 28-3-10 exposed; C-C for memb For studs exposed to w designer as per ANSI/T DOL=1.15); Pf=20.0 p of 12.0 psf or 2.00 time a load nonconcurrent w b ottom chord in all a CDL = 10.0psf. g plate capable of withs 37, 36, 35. 	0-8 to 4-9-7, Exteri to 39-9-15, Exteri vers and forces & N vind (normal to the FPI 1. ssf (Lum DOL=1.15 es flat roof load of 2 vith any other live I areas where a rect standing 100 lb up	ior(2N) 4-9-7 to 15-10- or(2N) 39-9-15 to 50-1 WWFRS for reactions s face), see Standard II 5 Plate DOL=1.15); Is= 20.0 psf on overhangs oads. angle 3-6-0 tall by 1-0 lift at joint(s) 2, 50, 51	-1, 1-5, shown; ndustry =1.0; Rough =1.0; Rough =-0 wide will , 52, 55, 56,	SEAL 28147	

vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 22	0 DAVINHALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R01	Piggyback Base Supported Gable	2		1 Job Reference (optional)	# 42105
			Run: 8,430 s Feb	12 2021 P	Print: 8,430 s Feb 12 2021 MiTek Industri	es. Inc. Tue Oct 24 15:48:48 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-lxHS7XehdF5Yj3naXPtvk1JgDf5CA3sKh53?XuyQAFT

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

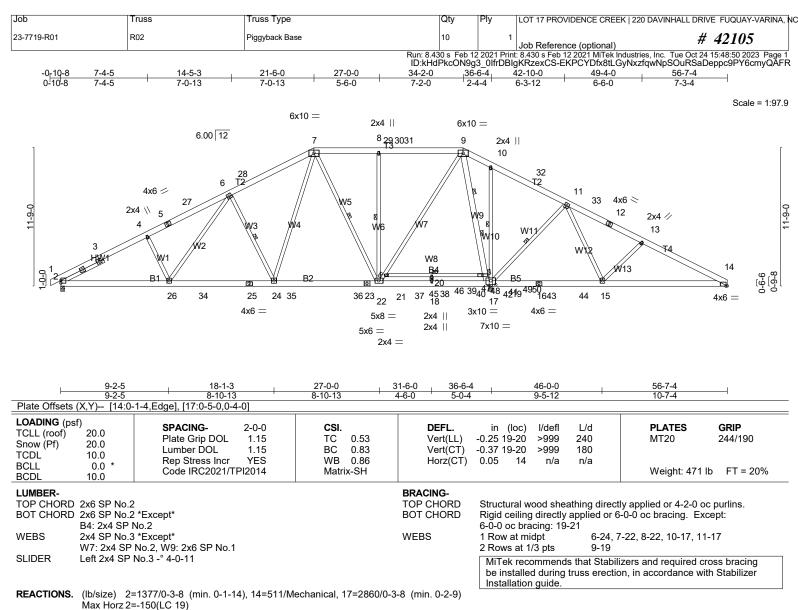
16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



10/23/2023



```
Max Uplift2=-126(LC 14), 14=-76(LC 15), 17=-34(LC 15)
```

Max Grav 2=1614(LC 92), 14=576(LC 41), 17=3755(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2669/178, 3-4=-2571/209, 4-5=-2477/215, 5-27=-2410/226, 6-27=-2378/244 6-28=-1805/243, 7-28=-1666/272, 7-29=-1038/216, 8-29=-1037/216, 8-30=-1037/216, 30-31=-1037/216, 9-31=-1038/216, 9-10=0/753, 10-32=0/938, 11-32=0/785, 11-33=-287/120, 12-33=-368/106, 12-13=-458/94, 13-14=-756/145 BOT CHORD 2-26=-237/2243, 26-34=-121/1878, 25-34=-121/1878, 24-25=-121/1878, 24-35=-31/1249, 35-36=-31/1249, 23-36=-31/1249, 22-23=-31/1249, 22-37=-131/358, 37-38=-131/358, 38-39=-131/358, 18-39=-131/358, 18-40=-131/358, 40-41=-131/358, 41-42=-131/358, 17-42=-131/358, 14-15=-60/620

WEBS 4-26=-294/171, 6-26=-78/541, 6-24=-1002/235, 7-24=-135/1228, 7-22=-867/149, 8-22=-744/151, 21-22=-134/1727, 9-21=-114/1892, 9-19=-2031/135, 17-19=-2103/104, 10-17=-628/146, 11-17=-976/198, 11-15=-29/652, 13-15=-455/178, 18-20=-263/0

NOTES-

1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; Gable

- OTES- (17-20) Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-9-7, Interior(1) 4-9-7 to 15-10-1, Exterior(2R) 15-10-1 to 27-0-0, Interior(1) 27-0-0 to 28-6-1, Exterior(2R) 28-6-1 to 39-9-15, Interior(1) 39-9-15 to 50-10-9, Exterior(2E) 50-10-9 to 56-6-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 1 CLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Reigh Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this design. This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. Provide adequate drainage to prevent water ponding. All plates are 5x5 MT20 unless otherwise indicated. 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough ALUINING ARA
- 4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs

- Provide adequate drainage to prevent water ponding.
- 7) All plates are 5x5 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Continuing by ber berge 2 lesign parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

10/23/2023

				~.,	,	LOT IT TROVIDENCE			
23-7719-R01	R02	Piggyback Base		10	1	Job Reference (opt	ional)		# 42105
			Run: 8.43	0 s Feb 12	2 2021 Prin	: 8.430 s Feb 12 2021 l KRzexCS-iWzblZga	MiTek Indus	stries, Inc. Tue Oct	24 15:48:51 2023 P
NOTES- (17-20)			ID:KHOP	kcON9g3		KRZexCS-IVVZDIZga		9DXRCIVITW3ASW	SNG3MN3Ig8DyG
9) * This truss has b	een designed for a live vith BCDL = 10.0psf.	load of 30.0psf on the bottom chord in a	all areas where	a rectan	gle 3-6-0	tall by 1-0-0 wide	will fit bet	tween the bottor	m chord and any
0) Refer to girder(s	s) for truss to truss conne		ha anain famuula	Duildin					
		to grain value using ANSI/TPI 1 angle t ers) of truss to bearing plate capable of							
3) Load case(s) 86	6, 87, 88, 89, 90, 91, 92,	93, 94, 95, 96, 97, 98, 99, 100, 101, 10	02, 103, 104, 10	5, 106 h	as/have l	peen modified. Bui	lding des	igner must revie	∍w loads to verif
	rect for the intended use	e of this truss. is the composite result of multiple load	cases						
15) User moving loa	nd cases exist: Review th	ne load cases for details.							
		plied to the face of the truss are noted not depict the size, type or the orientation			ember S	vmbol only indicat	es that th	e member must	t be braced
		esentations of a possible bearing cond							
19) Web bracing sh		t of individual web members only. Refe		de to Goo	od Practio	e for Handling, Ins	stalling, F	Restraining & Bra	acing of Metal P
Connected Woo	DI Trusses for additional	bracing guidelines, including diagonal RMANENT RESTRAING/BRACING OF	bracing.		BERS E				
		ND WEB PLANES. IN ADDITION TO							
ENGINEER FOR	R ADDITIONAL BRACIN	IG CONSIDERATIONS.							
LOAD CASE(S) Sta									
36) 1st User Defined Uniform Loads (Snow (balanced): Lumber Increase=1.	.15, Plate Increa	ase=1.15					
	7=-60(F), 7-9=-60(F), 9-1	14=-60(F), 2-14=-20(F), 19-21=-20(F)							
Vert: 22	=-150 37=-150	Cholonood), Lumber Incoments	15 Dicto Incom	000-1-1-1	-				
Uniform Loads (Snow (balanced): Lumber Increase=1 	. 15, Plate Incre	ase=1.1	J				
Vert: 1-7 Concentrated Lo		14=-60(F), 2-14=-20(F), 19-21=-20(F)							
Vert: 37	=-150 39=-150								
38) 3rd User Define Uniform Loads (Snow (balanced): Lumber Increase=1.	.15, Plate Incre	ase=1.15)				
	, 7-9=-60(F), 7-9=-60(F), 9-1	14=-60(F), 2-14=-20(F), 19-21=-20(F)							
	=-150 40=-150								
39) 4th User Define Uniform Loads (Snow (balanced): Lumber Increase=1.	.15, Plate Increa	ase=1.15	,				
Vert: 1-7	7=-60(F), 7-9=-60(F), 9-1	14=-60(F), 2-14=-20(F), 19-21=-20(F)							
Concentrated Lo Vert: 40	oads (lb) =-150 42=-150								
90) 5th User Define	d Moving Load - Dead +	Snow (balanced): Lumber Increase=1.	.15, Plate Increa	ase=1.15	i				
Uniform Loads (Vert: 1-7		14=-60(F), 2-14=-20(F), 19-21=-20(F)							
Concentrated Lo	oads (lb) =-150 41=-150								
91) 7th Unbal.1st Us	ser Defined Moving Load	d - Dead + Snow (balanced)-Parallel: L	umber Increase	=1.15, P	late Incre	ease=1.15			
Uniform Loads(Vert: 1-7		F=-20), 9-14=-32(F=-20), 2-14=-20(F),	19-21=-20(F)						
Concentrated Lo	oads (lb) =-150 37=-150								
92) 8th Unbal.1st Us	ser Defined Moving Load	d - Dead + Snow (balanced)-Parallel: L	umber Increase	=1.15, P	late Incre	ease=1.15			
Uniform Loads(Vert [.] 1- 5		F=-20), 7-9=-32(F=-20), 9-12=-101(F=-	20) 12-14=-60	(F=-20)	2-14=-20	(F) 19-21=-20(F)			
Concentrated Lo	oads (lb)			(0), .	0	(.),			
93) 7th Unbal.1st Us		d - Dead + Snow (balanced)-Parallel: L	umber Increase	=1.15, P	late Incre	ease=1.15			
Uniform Loads(Vert: 1-7		F=-20), 9-14=-32(F=-20), 2-14=-20(F),	19-21=-20(F)						
Concentrated Lo	bads (lb)								
	=-150 37=-150 ser Defined Moving Load	d - Dead + Snow (balanced)-Parallel: L	umber Increase	=1.15, P	late Incre	ease=1.15			
Uniform Loads (F=-20), 7-9=-32(F=-20), 9-12=-101(F=-	.20) 12-14=-60	(F=-20)	2-14=-20	(F) 19-21=-20(F)			
Concentrated Lo	oads (lb)	i = 20), i 0= 02(i = 20), 0 i 2= i0i(i =	20), 12 14 00	(1 - 20), 1	2 14 20	(1), 10-21-20(1)			
	=-150 37=-150 ser Defined Moving Load	d - Dead + Snow (balanced)-Parallel: L	umber Increase	=1.15, P	late Incre	ease=1.15	-1	SEAL 28147	11.
Uniform Loads (plf)	F=-20), 9-14=-32(F=-20), 2-14=-20(F),					anther C	ATH LAROL	IAMU
Concentrated Lo	bads (lb)		····				Inne	ROFESSION	A CONTRACTOR OF THE OWNER
	=-150 37=-150 ser Defined Moving Load	d - Dead + Snow (balanced)-Parallel: L	umber Increase	=1.15 P	late Incre	ease=1 15	IIII	SEAL	
Úniform Loads (plf)							28147	
Vert: 1-5 Concentrated Lo		F=-20), 7-9=-32(F=-20), 9-12=-101(F=-	20), 12-14=-60	(⊢=-20) , 2	2-14=-20	(F), 19-21=-20(F)			
Vert: 22	=-150 37=-150	d Dood (Chow (belanced) Den-U-L	umbor		lata lasa	222-1 15	The As	ANGINEER	S JUNE
97) 7th Unbal.1st Us Uniform Loads (d - Dead + Snow (balanced)-Parallel: L	umper increase	= 1.15, P	iate incre	ase=1.15	"Min	AK K MORP	annet
		F=-20), 9-14=-32(F=-20), 2-14=-20(F),	19-21=-20(F)					All the state of t	л.:

Qty

Ply

LOT 17 PROVIDENCE CREEK | 220 DAVINHALL DRIVE FUQUAY-VARINA, NC

Job

Truss

Truss Type

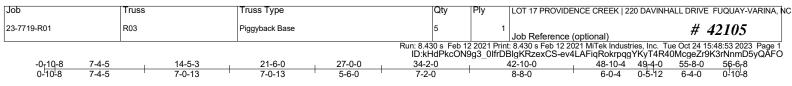
10/23/2023

Job Truss Truss	Type Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVINHALL DRIVE FUQUAY-VA	RINA, NC
23-7719-R01 R02 Piggyba	pack Base 10	1	Job Reference (optional) # 42105	

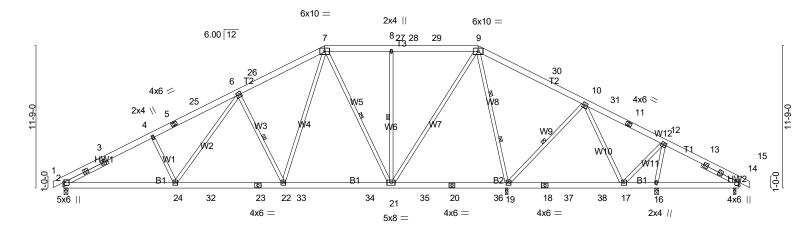
Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 24 15:48:51 2023 Page 3 ID:kHdPkcON9g3 0lfrDBlgKRzexCS-iWzblZgavAT7aXW9DXRcMfw3AswSNG3mN3lg8DyQAFQ

	ID:kHdPkcON9g3_0lfrDBlgKRzexCS-iWzblZgavAT7aXW9DXRcMfw3AswSNG3mN3lg8DyQAl
LOAD CASE(S)	
Concentrated Loads (Ib)	
Vert: 22=-150 37=-150 98) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumbe	ar Increase=1.15. Plate Increase=1.15
Uniform Loads (plf)	inclease - 1.10, Flate inclease - 1.10
Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-12=-101(F=-20),	12-14=-60(F=-20), 2-14=-20(F), 19-21=-20(F)
Concentrated Loads (lb)	
Vert: 22=-150 37=-150 99) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumbe	or Incrosso=1.15. Dista Incrosso=1.15
Uniform Loads (plf)	inclease - 1.10, Flate inclease - 1.10
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-14=-32(F=-20), 2-14=-20(F), 19-2	1=-20(F)
Concentrated Loads (lb)	
Vert: 22=-150 37=-150	
100) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumi Uniform Loads (plf)	Der Increase=1.15, Plate Increase=1.15
Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-12=-101(F=-20)	. 12-14=-60(F=-20). 2-14=-20(F). 19-21=-20(F)
Concentrated Loads (lb)	
Vert: 22=-150 37=-150	
101) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumi Uniform Loads (plf)	per Increase=1.15, Plate Increase=1.15
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-14=-32(F=-20), 2-14=-20(F), 19-	21=-20(F)
Concentrated Loads (lb)	
Vert: 22=-150 37=-150	
102) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumi	per Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-12=-101(F=-20)	12-14=-60(F=-20) 2-14=-20(F) 19-21=-20(F)
Concentrated Loads (Ib)	, 12 11 00(1 20), 2 11 20(1), 10 21 20(1)
Vert: 22=-150 37=-150	
103) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumb	per Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-14=-32(F=-20), 2-14=-20(F), 19-	21=_20(F)
Concentrated Loads (Ib)	21-20(1)
Vert: 22=-150 37=-150	
104) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumi	per Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-12=-101(F=-20)	12-14=-60/F=-20) 2-14=-20(F) 10-21=-20(F)
Concentrated Loads (Ib)	, 12-1400(120), 2-1420(1), 10-2120(1)
Vert: 22=-150 37=-150	
105) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lum	per Increase=1.15, Plate Increase=1.15
Uniform Loads (plf) Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-14=-32(F=-20), 2-14=-20(F), 19-	21- 20(E)
Concentrated Loads (lb) $(1 - 20)$, $(1 -$	2120(1)
Vert: 22=-150 37=-150	
106) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumb	per Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)	12 14- 60/E- 20) 2 14- 20/E) 10 21- 20/E)
Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-12=-101(F=-20) Concentrated Loads (lb)	, 12-1400(F20), 2-1420(F), 19-2120(F)
Vert: 22=-150 37=-150	





Scale = 1:95.0



	<u> </u>	27-0-0 8-10-13	<u>36-6-4</u> 9-6-4		46-0-0 9-5-12	48-10-4	55-5-8 6-7-4	55 ₁ 8-0 0-2-8
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.72 BC 0.66 WB 0.94 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.17 22-24 -0.26 22-24 0.05 19	l/defl L/d >999 240 >999 180 n/a n/a	PLA MT20 Weig	0	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x6 SP No. BOT CHORD 2x6 SP No. B2: 2x6 SP WEBS 2x4 SP No. W8: 2x4 SP SLIDER Left 2x4 SP	2 *Except* DSS 3 *Except*		BRACING- TOP CHORD BOT CHORD WEBS	Rigid ceiling 1 Row at mi 2 Rows at 1 MiTek reco	/3 pts 9-19 ommends that Stab d during truss erect	6-0-0 oc brac , 7-21, 8-21, 1 pilizers and red	oing. 0-19 quired cro	ss bracing
(lb) - Max Horz 2 Max Uplift Max Grav		14, 16 except 2=-136(L0		14=364(LC 43	i), 16=576(LC			
TOP CHORD 2-3=-2672 6-26=-182	np./Max. Ten All forces 250 (lb) or 2/222, 3-4=-2578/253, 4-5=-2500/264 24/290, 7-26=-1676/318, 7-27=-916/2 15/271, 9-29=-916/271, 9-30=0/790,	4, 5-25=-2415/270, 6-25= 271, 8-27=-915/271, 8-28	=-2386/288, 3=-915/271,					
BOT CHORD 2-24=-256 33-34=-35 WEBS 4-24=-307	5/2251, 24-32=-137/1864, 23-32=-13 5/1169, 21-34=-35/1169 7/172, 6-24=-81/537, 6-22=-999/236, 3/150, 9-21=-133/1632, 9-19=-2115/2	7/1864, 22-23=-137/186 7-22=-130/1269, 7-21=-	4, 22-33=-35/1169 917/132,					

vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to ensure the instance and roaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Trusse Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVIN	HALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R03	Piggyback Base	5	1	Job Reference (optional)	# 42105
			Run: 8.430 s Feb 12	2021 Print	t: 8.430 s Feb 12 2021 MiTek Industries. Inc.	Tue Oct 24 15:48:53 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-ev4LAFiqRokrpqgYKyT4R40McgeZr9K3rNnmD5yQAFO

11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

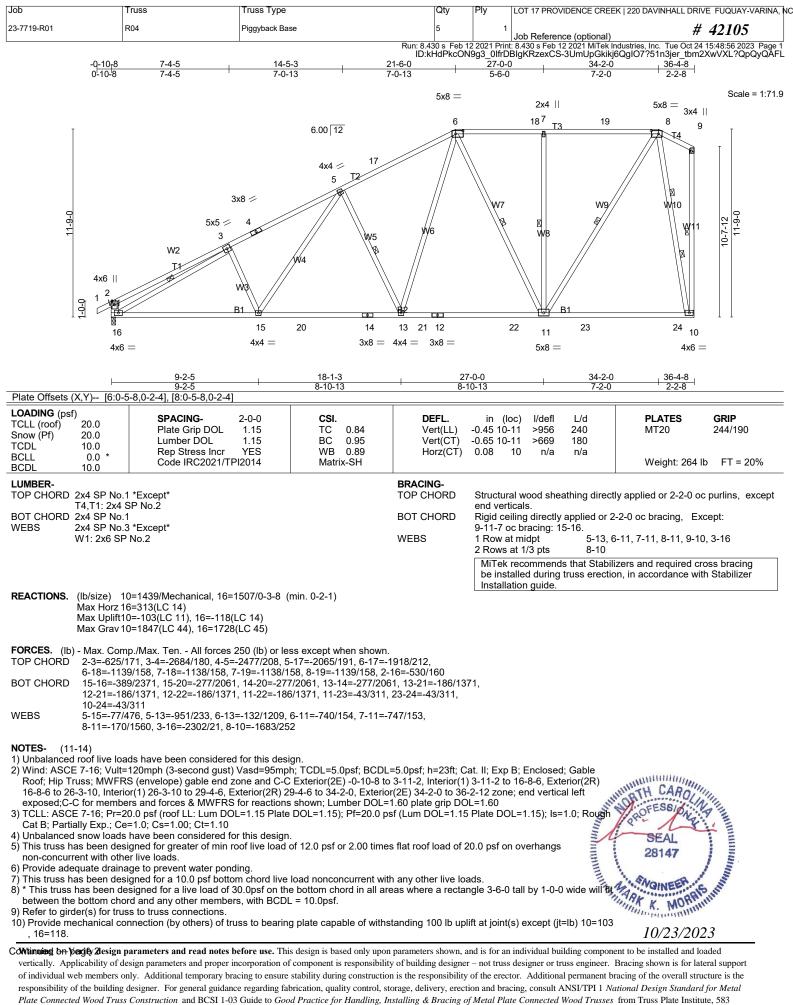
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



10/23/2023



D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVIN	HALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R04	Piggyback Base	5	1	Job Reference (optional)	# 42105
		R	un: 8.430 s Feb 12	2021 Print	t: 8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Oct 24 15:48:56 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-3UmUpGkikj6QgIO7?51n3jer_tbm2XwVXL?QpQyQAFL

11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

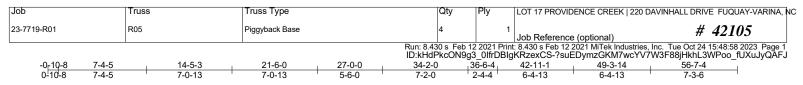
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

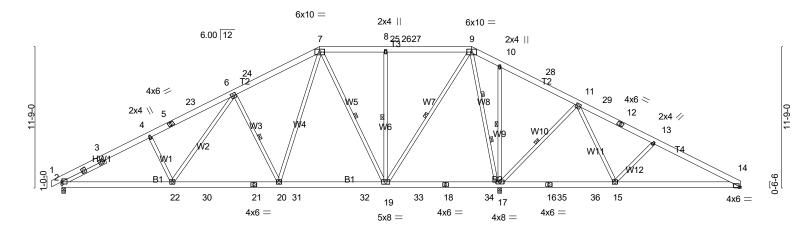
LOAD CASE(S) Standard



10/23/2023



Scale: 1/8"=1'



 	<u>9-2-5</u> 9-2-5	<u> </u>	27-0-0 8-10-13	<u>36-6-4</u> 9-6-4	<u>46-1-8</u> 9-7-4	56-7-4 10-5-12
Plate Offsets ((X,Y) [14:0-1	-4,Edge]		_		
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL	5) 20.0 20.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2021/TPI2014	CSI. TC 0.51 BC 0.64 WB 0.99 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defi L/d -0.16 20-22 >999 240 -0.25 20-22 >999 180 0.05 14 n/a n/a	PLATES GRIP MT20 244/190 Weight: 449 lb FT = 20%
WEBS		SS		BRACING- TOP CHORD BOT CHORD WEBS	2 Rows at 1/3 pts 9-17 MiTek recommends that Stab	
REACTIONS.	Max Horz 2=- Max Uplift2=-	1335/0-3-8 (min. 0-1-12), 17=2766, 150(LC 15) 136(LC 14), 17=-108(LC 15), 14=- 1502(LC 39), 17=3481(LC 45), 14=	77(LC 15)	475/Mechanical		
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	2-3=-2523/1 6-24=-1666/ 26-27=-825/ 12-13=-411/ 2-22=-255/2 31-32=-52/1 17-34=-406/ 4-22=-310/1 8-19=-742/1	/Max. Ten All forces 250 (lb) or l 98, 3-4=-2430/227, 4-5=-2352/238 260, 7-24=-1529/289, 7-25=-825/2 241, 9-27=-826/241, 9-10=0/842, 1 99, 13-14=-698/145 121, 22-30=-140/1753, 21-30=-140 124, 19-32=-52/1114, 19-33=-406/ 229, 14-15=-60/568 70, 6-22=-79/542, 6-20=-1004/235 51, 9-19=-161/1721, 9-17=-1966/1 35, 13-15=-444/175	5-23=-2269/243, 6-23= 41, 8-25=-824/241, 8-26 0-28=0/1014, 11-28=0/8 //1753, 20-21=-140/1753 229, 18-33=-406/229, 18 7-20=-128/1268, 7-19=	-2237/261, =-825/241, 363, 12-29=-323/1 3, 20-31=-52/1114 3-34=-406/229, -1001/131,		
between the	I roof live loads 27-16; Vult=11 russ; MWFRS 27-0-0, Interiorq ; end vertical I :60 E 7-16; Pr=20. ally Exp.; Ce=' I snow loads as been desig rent with other equate drainag re 5x5 MT20 ui as been desig bas been desig bas been desig	s have been considered for this des 20mph (3-second gust) Vasd=95m (envelope) gable end zone and C- (1) 27-0-0 to 28-6-1, Exterior(2R) 2 eft and right exposed;C-C for mem 0 psf (roof LL: Lum DOL=1.15 Plat 1.0; Cs=1.00; Ct=1.10 ave been considered for this desig ned for greater of min roof live load live loads. e to prevent water ponding. nless otherwise indicated. ned for a 10.0 psf bottom chord live igned for a live load of 30.0psf on ti and any other members, with BCD s to tracs commections. rameters and read notes before use. Th	L = 10.0psf.			10/23/2023
vertically. App	berge 2 lesign par blicability of desi	rameters and read notes before use. The gn parameters and proper incorporation of	us design is based only upor of component is responsibilit	n parameters shown, a y of building designe	and is for an individual building compo r – not truss designer or truss engineer.	nent to be installed and loaded . Bracing shown is for lateral support
of individual w	eb members only	y. Additional temporary bracing to ensur	e stability during construction	n is the responsibility	of the erector. Additional permanent	bracing of the overall structure is the
		strand Erstein 1 and 4 and a strandbard				

responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Trusse Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583

D'Onofrio Drive, Madison, WI 53719.

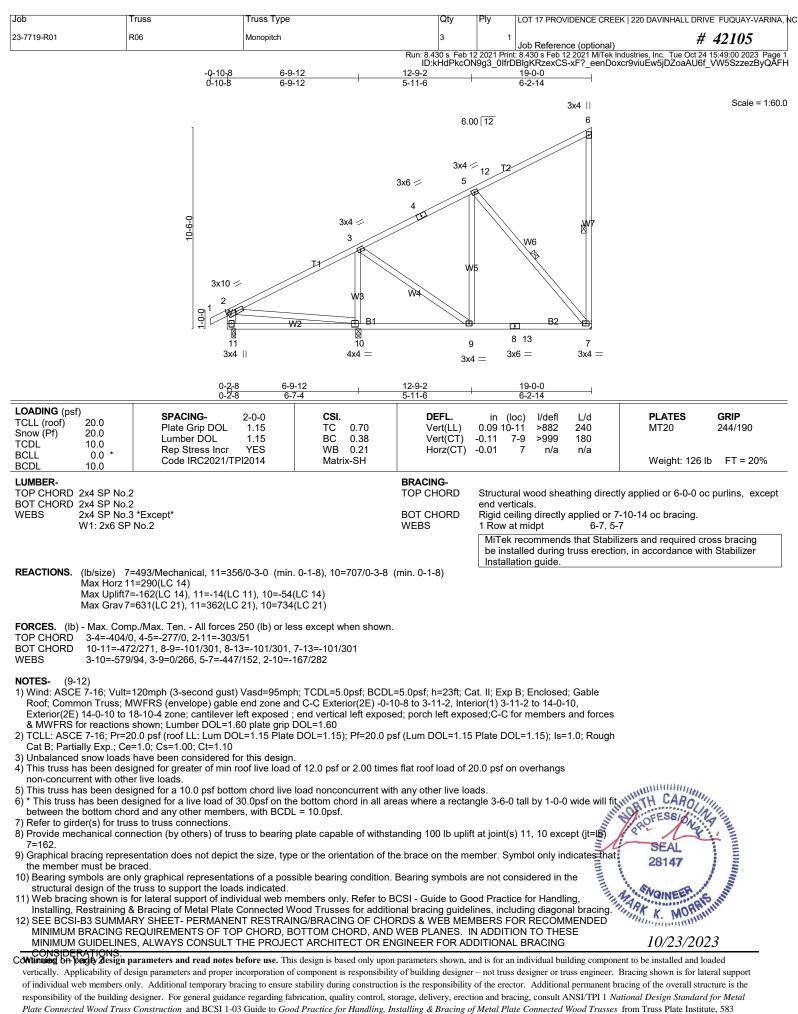
Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVINHA	LL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R05	Piggyback Base	4	1	Job Reference (optional)	# 42105
					t: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue DBIgKRzexCS-T3RcRImb1eU XI7ihDaUhL	

NOTES- (12-15)

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=136, 17=108.
- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENCINEER FOR ADDITIONAL DEACING CONCEPTENTIONS. ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





frio	Drive,	Madison,	WI	53719.

D'Onc

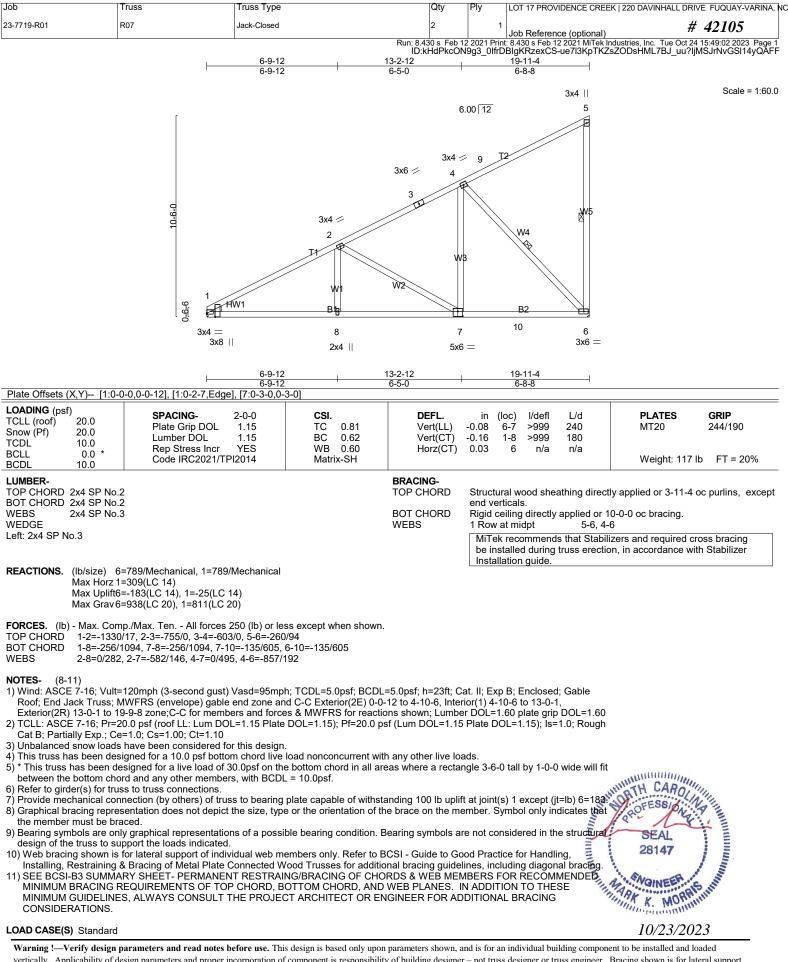
Job Truss Truss Type G	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVINHALL DRIVE FUQUAY-VARINA, I	NC
23-7719-R01 R06 Monopitch 3	3	1	Job Reference (optional) # 42105	

n: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 24 15:49:00 2023 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-xF?_eenDoxcr9viuEw5jDZoaAU6f_VW5SzzezByQAFH Rur

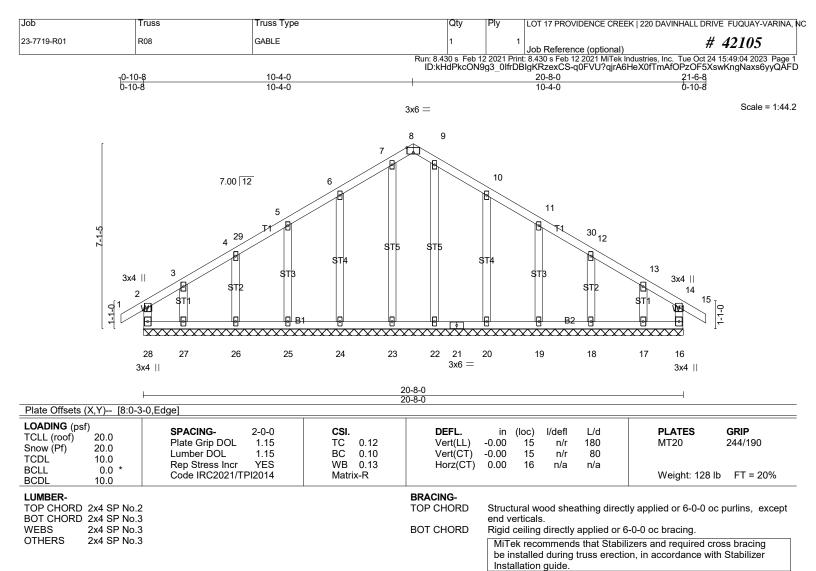
LOAD CASE(S) Standard



10/23/2023



vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



REACTIONS. All bearings 20-8-0.

(lb) - Max Horz 28=152(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 24, 25, 26, 27, 20, 19, 18, 17

Max Grav All reactions 250 lb or less at joint(s) 28, 16, 23, 25, 26, 27, 22, 19, 18, 17 except 24=302(LC 5),

20=302(LC 6)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-(14-17)

- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 5-6-4, Corner(3R) 5-6-4 to 15-1-12, Exterior(2N) 15-1-12 to 16-8-14, Corner(3E) 16-8-14 to 21-6-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
- Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
- non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 10) Gable studs spaced at 2-0-0 co.
 11) This truss has been designed for a 10.0 psf bottom chord live load from the bottom chord in all areas where a requirement of the bottom chord and any other members, with BCDL = 10.0psf.
 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a requirement of the bottom chord and any other members, with BCDL = 10.0psf.
 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 16, 24, 25, 26, 27, 20, 19, 18, 17.

SEAL 28147 27 BROFESSIONEER SEAL 28147 27 K. MOREER K. MORANIUM 2.3/207 310

Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVI	NHALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R08	GABLE	1	1	Job Reference (optional)	# 42105
		Run:	8.430 s Feb 1	2 2021 Prir	nt: 8,430 s Feb 12 2021 MiTek Industries, Inc.	Tue Oct 24 15:49:04 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-q0FVU?qjrA6HeX0fTmAfOPzOF5XswKngNaxs6yyQAFD

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

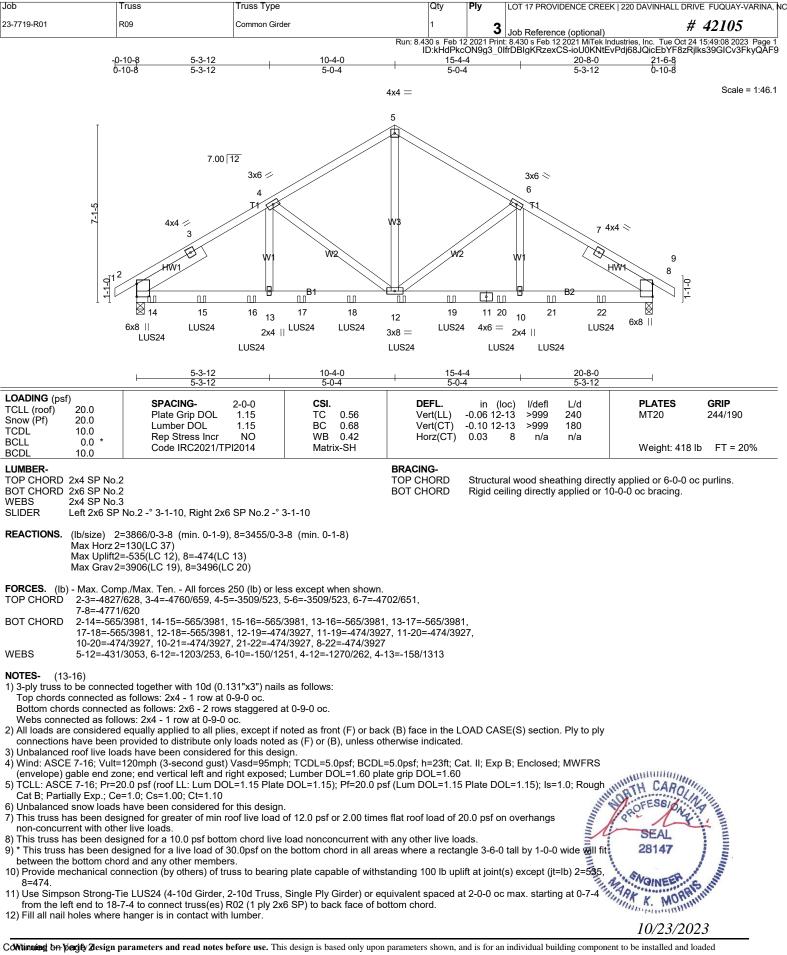
16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



10/23/2023



Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVIN	IHALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R09	Common Girder	1	3	Job Reference (optional)	# 42105
		R	un: 8.430 s Feb 12	2 2021 Print	: 8,430 s Feb 12 2021 MiTek Industries, Inc.	Tue Oct 24 15:49:09 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-B_2OXjusgilakludGJlq5Sg8B65ybWPPWsfcnAyQAF8

13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

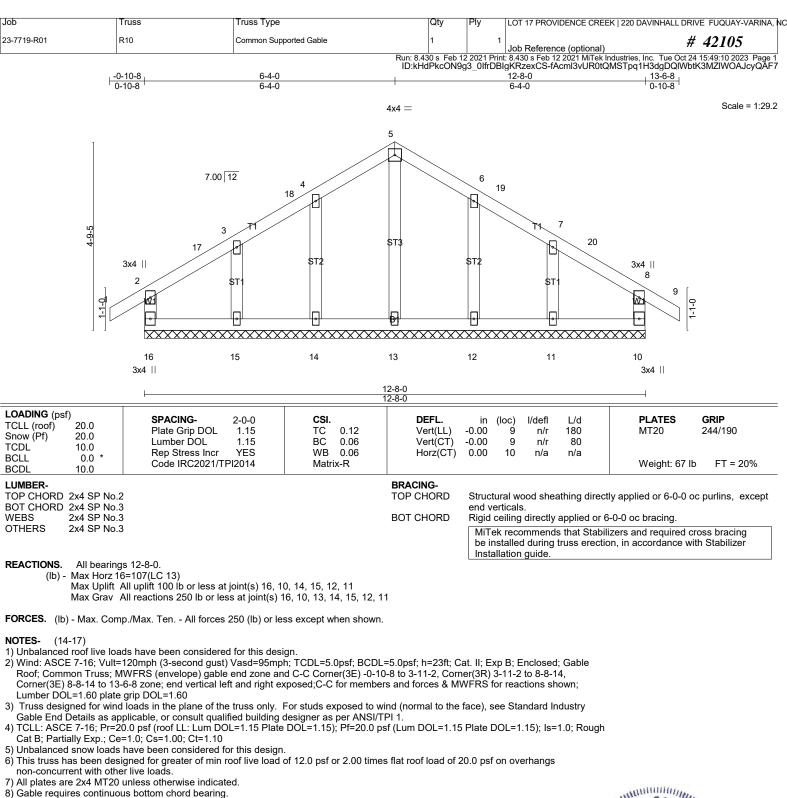
Uniform Loads (plf) Vert: 1-5=-60, 5-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 12=-556(B) 14=-560(B) 15=-556(B) 16=-556(B) 17=-556(B) 18=-556(B) 19=-556(B) 20=-556(B) 21=-556(B) 22=-556(B)



10/23/2023



- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 11.

SEAL 28147 *MONEER CROPESSIONS SEAL 28147 *MONEER C. MORRIS

Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVIN	IHALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R10	Common Supported Gable	1	1	Job Reference (optional)	# 42105
Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 24 15:49:11 2023 Page 2					Tue Oct 24 15:49:11 2023 Page 2	

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-7NA8yPw6CK?Hzb2?OkolAtmbUwx63Wbi_A8jr2yQAF6

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

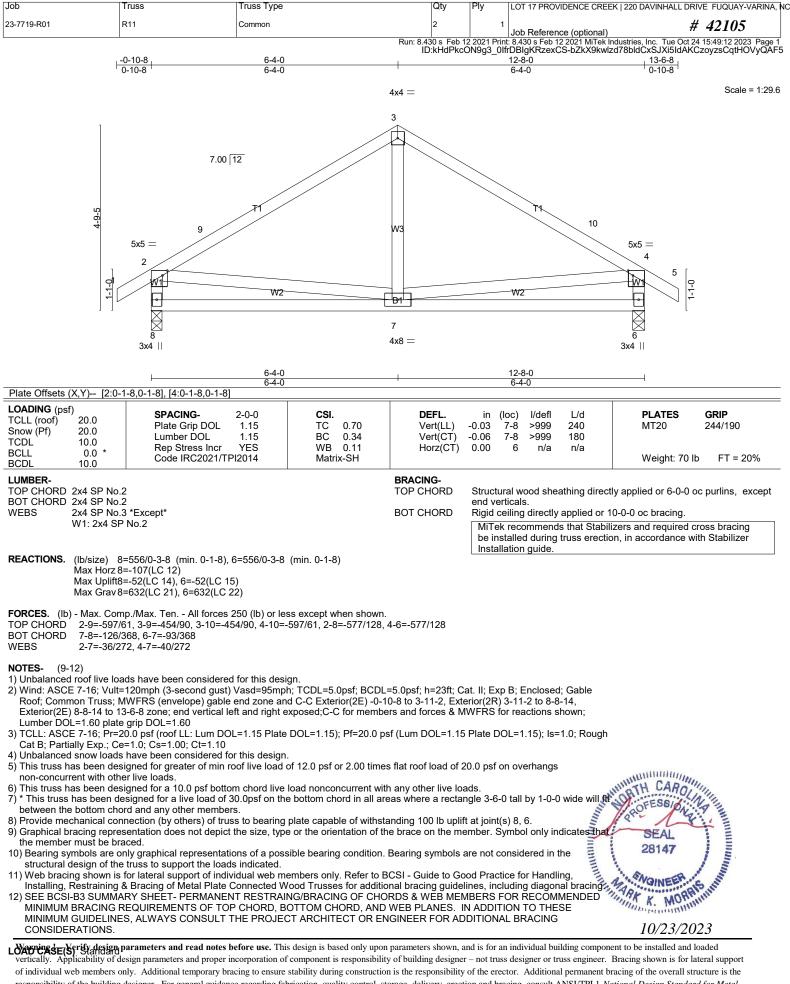
16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

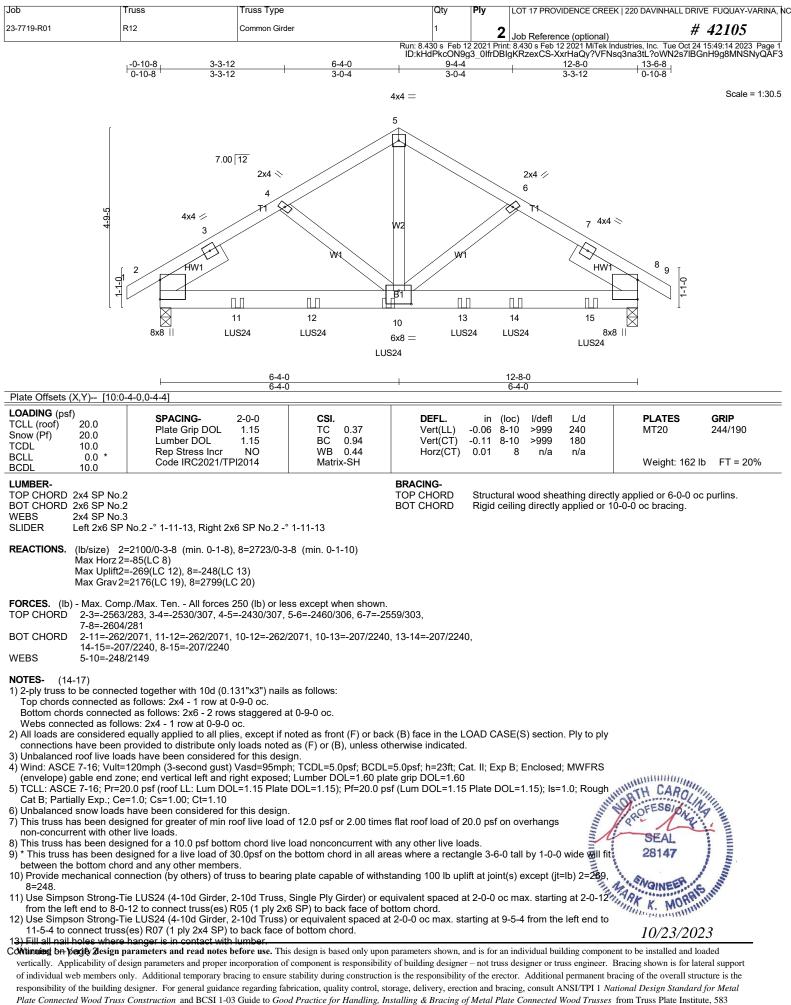
LOAD CASE(S) Standard



10/23/2023



responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 17 PROVIDENCE CREEK 220 DAVIN	IHALL DRIVE FUQUAY-VARINA, NC
23-7719-R01	R12	Common Girder	1	2	Job Reference (optional)	# 42105
		Run:	8.430 s Feb 1	2 2021 Prin	t: 8.430 s Feb 12 2021 MiTek Industries. Inc.	Tue Oct 24 15:49:15 2023 Page 2

ID:kHdPkcON9g3_0lfrDBlgKRzexCS-?8PfomzdGYVjSDLmdasEKjwDcX4Q?EXIvo6x_qyQAF2

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

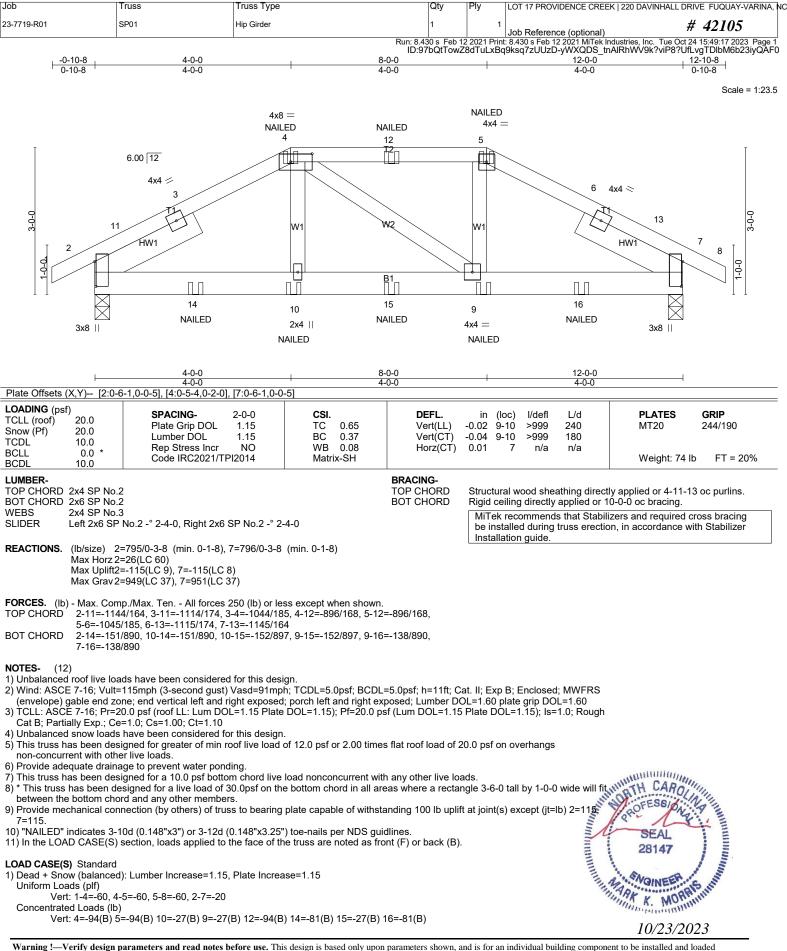
Uniform Loads (plf) Vert: 1-5=-60, 5-9=-60, 2-8=-20

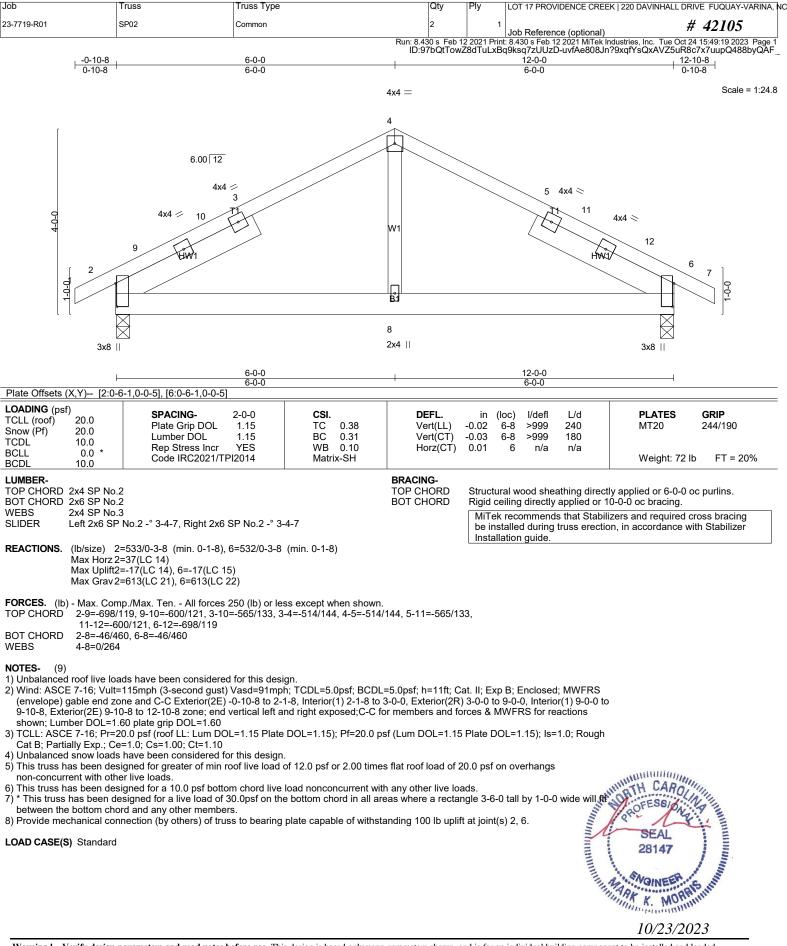
Concentrated Loads (lb)

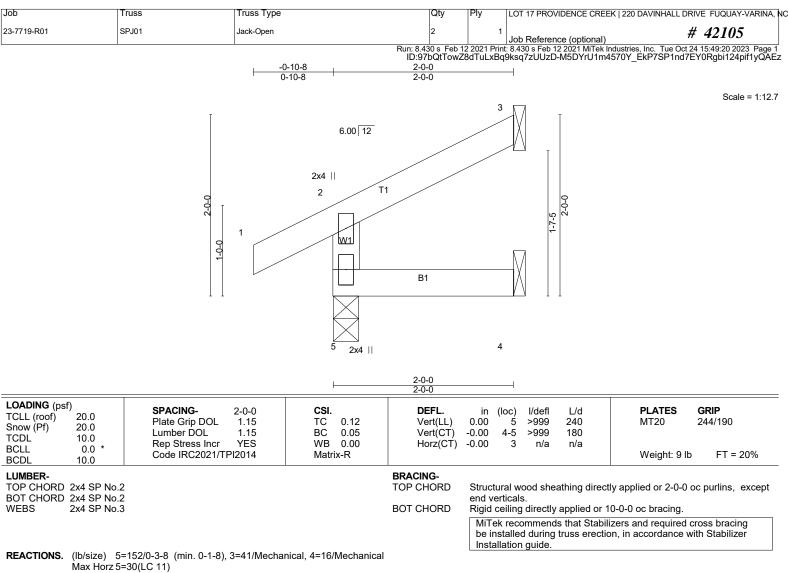
Vert: 10=-530(B) 11=-530(B) 12=-530(B) 13=-530(B) 14=-791(B) 15=-791(B)



10/23/2023







Max Uplift5=-2(LC 14), 3=-20(LC 14), 4=-7(LC 11) Max Grav 5=208(LC 21), 3=57(LC 21), 4=34(LC 7)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES- (

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=10ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs

non-concurrent with other live loads. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

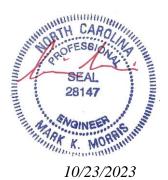
6)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit

between the bottom chord and any other members.

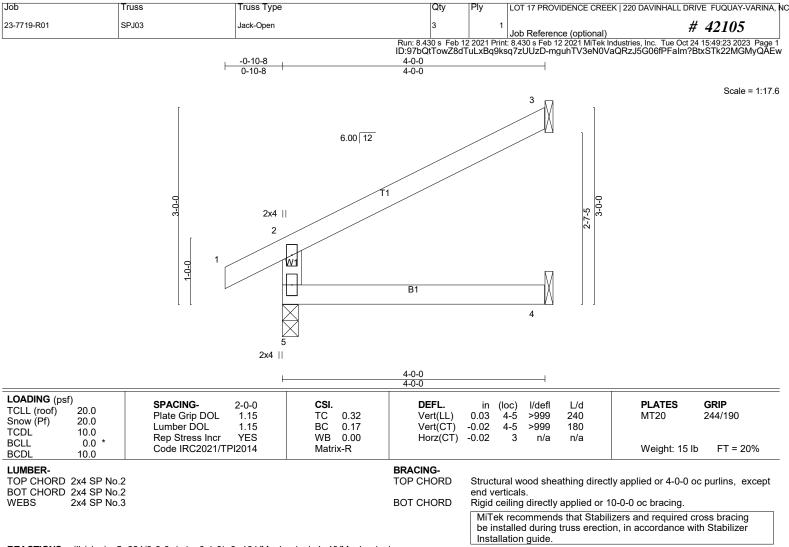
7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply LOT 17 PROVIDENCE CREE	K 220 DAVINHALL DRIVE FUQUAY-VARINA, NO
23-7719-R01	SPJ02	Half Hip Girder	2	1 Job Reference (optional)	# 42105
			Run: 8.430 s Feb ID:97bQtTow	z8dTuLxBq9ksq7zUUzD-qlnw2p1Or	dustries, Inc. Tue Oct 24 15:49:21 2023 Page 1 DFtA8pwzrzea_AI7yLzP2TAHkZFBTyQAEy
	<u>-0-10-8</u> 0-10-8	<u>2-0-0</u> 2-0-0		<u>4-0-0</u> 2-0-0	
			4	₅ 3x6	Scale = 1:12.6
Ī		6.00 12 3x4 🐖	4x8 =	T2	Ī
		0.00 12 3x4 = 3			Ţ
		T1		W1	
2-0-0	2			W2	2-0-0
	1	HW1			2-(
	1-0-0				
				L ĵ	
				X	
			⁷ 2x4	6	
			NAILED		
		3x8		4x4 =	
		2-0-0		4-0-0	
	[2:0-6-1,0-0-5], [4:0-5-0,0-2		Ι	200	
OADING (psf) CLL (roof) 20.0	SPACING- Plate Grip DO	2-0-0 CSI. _ 1.15 TC 0.1	1 DEFL. Vert(LL)	in (loc) l/defl L/d -0.00 2 >999 240	PLATES GRIP MT20 244/190
Snow (Pf) 20.0 FCDL 10.0	Lumber DOL Rep Stress Inc	1.15 BC 0.03	3 Vert(CT)	-0.00 7 >999 180 0.00 5 n/a n/a	
BCLL 0.0 BCDL 10.0	* Code IRC202			0.00 0 1//4 1//4	Weight: 27 lb FT = 20%
LUMBER-	? No.2		BRACING- TOP CHORD	Structural wood sheathing direct	y applied or 4-0-0 oc purlins, except
SOT CHORD 2x6 SF WEBS 2x4 SF	PNo.2		BOT CHORD	end verticals. Rigid ceiling directly applied or 1	
SLIDER Left 2x	6 SP No.2 -° 1-6-12			MiTek recommends that Stabili	zers and required cross bracing n, in accordance with Stabilizer
REACTIONS (Ib/siz	a) 5=56/Mechanical 6=0	2/Mechanical, 2=213/0-3-0 (min.	0-1-8)	Installation guide.	
Max H	lorz 2=37(LC 12) lplift5=-14(LC 8), 6=-6(LC 1		0 1 0)		
	Grav 5=94(LC 33), 6=101(LC				
ORCES. (Ib) - Max	Comp./Max. Ten All ford	es 250 (lb) or less except when s	shown.		
NOTES- (13)	Vult-115mph (3 second a	ist) Vasd-91mph: TCDI -5 Opsf:	RCDI -5 Opef: b-11ft: C	at. II; Exp B; Enclosed; MWFRS	
(envelope) gable e	nd zone; Lumber DOL=1.6	0 plate grip DOL=1.60		Plate DOL=1.15); Is=1.0; Rough	
Cat B; Partially Ex	b.; Ce=1.0; Cs=1.00; Ct=1. loads have been considere	10		1 Iate DOL-1.10), 13-1.0, 100gi	
	n designed for greater of m	in roof live load of 12.0 psf or 2.0	00 times flat roof load of 2	20.0 psf on overhangs	
5) Provide adequate	drainage to prevent water p	onding. ottom chord live load nonconcurr	ont with any other live la	ada	
′) * This truss has be		of 30.0psf on the bottom chord in		ngle 3-6-0 tall by 1-0-0 wide will fit	
B) Refer to girder(s) fer an address of the second seco	or truss to truss connection		withstanding 100 lb unlit	t at ioint(s) 5, 6, 2	ANNIHII)IIII.
0) Gap between insi	de of top chord bearing and	d first diagonal or vertical web sh 2d (0.148"x3.25") toe-nails per N	all not exceed 0.500in.	v at joint(3) 5, 6, 2.	MATH CAROLINI
		to the face of the truss are noted		innu,	OFESO/DAN P
OAD CASE(S) Stan	dard anced): Lumber Increase=1	15 Plate Increase-1 15		1 mil	SEAL
Uniform Loads (plf)	. 13, Flate Increase - 1. 13		UI III III IIII IIII IIIIIIIIIIIIIIIII	28147
Concentrated Load Vert: 7=0(F				Internet	SEAL 28147 10/23/2023
vert. 7–0(f	-)			3	ARK K. MORRAUM
					10/22/2022
					10/23/2023



REACTIONS. (lb/size) 5=221/0-3-0 (min. 0-1-8), 3=101/Mechanical, 4=43/Mechanical Max Horz 5=51(LC 14) Max Uplift3=-38(LC 14), 4=-9(LC 11)

Max Grav 5=322(LC 21), 3=154(LC 21), 4=72(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-293/78

NOTES- (9)

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=11ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit

between the bottom chord and any other members.

Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.





